

SEQUENCE LISTING

<110> Howell, Steven
van der Logt, Cornelis Paul Eric
Wilson, Stephen

<120> IMMUNOLOGICAL BINDING

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<150> EP 99300058.7

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<160> 49

<170> PatentIn Ver. 2.1

<210> 1

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<223> Description of Artificial Sequence:PRIMER

<400> 1

cacctgggcc atggccggct gggcccctaa gcctaaggca gcttgacttg cag 53

<210> 2

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<400> 2

gggcttgatt ggagctcgct cattcc 26

<210> 3

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<223> Description of Artificial Sequence:PRIMER

<400> 3

gcaggatccg atgcacacaa gaggtaggtt gc 32

<210> 4

<211> 32

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 <400> 4
 tgaggagacg gtgaccgtgg tcccttggcc cc 32

 <210> 5
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 <400> 5
 gcaaattggca ttctgacatc c 21

 <210> 6
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 <400> 6
 tcggcttatt ccaggggtgt g 21

 <210> 7
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 <400> 7
 tcccccgatt ggtgagacca g 21

 <210> 8
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 <400> 8
 aaatgatgag atgcctgctg acttg 25

 <210> 9
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<223> Description of Artificial Sequence:PRIMER

<400> 9

atgcgctggtt agttcgttac acc

23

<210> 10

<211> 21

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gaaacatacg ttcccaaaga g

21

<210> 11

<211> 22

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<400> 11

cacacccctg gaataagccg ag

22

<210> 12

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<400> 12

ggggagggttt gggttgtcat c

21

<210> 13

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<223> Description of Artificial Sequence:PRIMER

<400> 13

tggcagcatt ccgtgtggac

20

<210> 14

<211> 24

<212> DNA

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<400> 14
 acatttgctg cccacttttc ctag 24

 <210> 15
 <211> 24
 <212> DNA
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 <400> 15
 aaaagcagcg aaatcatcca taac 24

 <210> 16
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 <400> 16
 aggtsmarct gcagsagtcw gg 22

 <210> 17
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 <212> DNA
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 <400> 17
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 <210> 18
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 aacagttaag cttccgcttg cggccgctgg ttgtggtttt ggtgtcttgg gtt 53

 <210> 19
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 <400> 19
 ggggaattcca ataggtggtt agcaatcg 28

<210> 20
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 <400> 20
 gaccaacgtg gtcgctggc aaaacg 26

 <210> 21
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 <400> 21
 cgttttgccg ggcgaccacg ttggtc 26

 <210> 22
 <211> 30
 <212> DNA
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 <400> 22
 cccaagctt acatggtctt aagttggcgt 30

 <210> 23
 <211> 155
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:PLASMID CONSTRUCT

 <400> 23
 gagctcatca cacaaacaaa caaaacaaa tgatgctttt gcaagccttc cttttccttt 60
 tggctgggtt tgcagccaaa atatctgcgc aggtgcagct gcaggagtca taatgagga 120
 cccaggtcac cgtctcctca taatgactta agctt 155

 <210> 24
 <211> 36
 <212> PRT
 <213> Artificial Sequence

 <220>

<223> Description of Artificial Sequence:PROTEIN FROM
PLASMID CONSTRUCT

<400> 24

Ala His His Thr Asn Lys Gln Asn Lys Met Met Leu Leu Gln Ala Phe
1 5 10 15

Leu Phe Leu Leu Ala Gly Phe Ala Ala Lys Ile Ser Ala Gln Val Gln
20 25 30

Leu Gln Glu Ser
35

<210> 25

<211> 188

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:PLASMID CONSTRUCT

<400> 25

gagctcatca cacaacaaaa caaaacaaaa tgatgctttt gcaagccttc cttttccttt 60
tggctgggtt tgcagccaaa atatctgcgc aggtgcagct gcaggagtca taatgaggga 120
cccaggtcac cgtctcctca gaacaaaaac tcatctcaga agaggatctg aattaatgac 180
ttaagctt 188

<210> 26

<211> 36

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:PROTEIN FROM
PLASMID CONSTRUCT

<400> 26

Ala His His Thr Asn Lys Gln Asn Lys Met Met Leu Leu Gln Ala Phe
1 5 10 15

Leu Phe Leu Leu Ala Gly Phe Ala Ala Lys Ile Ser Ala Gln Val Gln
20 25 30

Leu Gln Glu Ser

<210> 27

<211> 43

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:PRIMER

<400> 27

gaattaagcg gccgcccagg tgaaactgct cgagtcwggg gga

43

<210> 28

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PRIMER

<400> 28

ccctgggtcc agtggcagag gagtggcaga ggagtcttgt tt

42

<210> 29

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:PLASMID CONSTRUCT

<400> 29

caggtccagc tgcaggagtc tggg

24

<210> 30

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PLASMID CONSTRUCT

<400> 30

caggtgaaac tgctcgagtc wggg

24

<210> 31

<211> 55

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:SYNTHETIC LINKER

<400> 31

ggtcaccgtc tcctcacagg tgcagctgca ggagtcactg taatgactta agctt

55

<210> 32

<211> 47

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:SYNTHETIC INSERT

<400> 32

aagctgctag ccaggtgaaa ctgctcgagc cggggaagct tgaattc

47

<210> 33

<211> 41

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:PRIMER

<400> 33

agctgctagc caggtgaaac tgctcgagcc cgggaagctt g

41

<210> 34

<211> 41

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:PRIMER

<400> 34

aattcaagct tcccgggctc gagcagtttc acctggctag c

41

<210> 35

<211> 30

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:SYNTHETIC INSERT

<400> 35

ctcgagaaaa gagctagccc cggggaattc

30

<210> 36

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:PRIMER

<400> 36

tcgagaaaag agctagcccc gggg

24

<210> 37

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:PRIMER

<400> 37

aattccccgg ggctagctct tttc

24

<210> 38

<211> 47

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:SYNTHETIC INSERT

<400> 38

ctctcgagaa aagacatcac catcaccatc acggctctta cgtacag

47

<210> 39

<211> 38

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:PRIMER

<400> 39

tcgagaaaag acatcaccat caccatcacg gctcttac

38

<210> 40

<211> 34

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:PRIMER

<400> 40

gtaagagccg tgatggatgat ggtgatgtct tttc

34

<210> 41

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PRIMER

<400> 41

gactggttcc aattgacaag c

21

<210> 42
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:PRIMER

 <400> 42
 atcgaattct ctagatccac cgcctccaga accgccagtg atcccggcgg cggtcacgaa 60

<210> 43
 <211> 500
 <212> PRT
 <213> Artificial Sequence

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 <223> Description of Artificial Sequence:LLAMA ANTIBODY
 FRAGMENT-GFP FUSION PROTEIN

<400> 43
 His His His His His His Gly Ser Tyr Gly Ile His Arg Pro Val Ala
 1 5 10 15
 Thr Met Val Ser Lys Gly Glu Glu Leu Phe Thr Gly Val Val Pro Ile
 20 25 30
 Leu Val Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser
 35 40 45
 Gly Glu Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe
 50 55 60
 Ile Cys Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr
 65 70 75 80
 Thr Leu Thr Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met
 85 90 95
 Lys Gln His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln
 100 105 110
 Glu Arg Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala
 115 120 125
 Glu Val Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys
 130 135 140
 Gly Ile Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu
 145 150 155 160
 Tyr Asn Tyr Asn Ser His Asn Val Tyr Ile Met Ala Asp Lys Gln Lys
 165 170 175
 Asn Gly Ile Lys Val Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly

180	185	190
Ser Val Gln Leu Ala Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp 195 200 205		
Gly Pro Val Leu Leu Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Ala 210 215 220		
Leu Ser Lys Asp Pro Asn Glu Lys Arg Asp His Met Val Leu Leu Glu 225 230 235 240		
Phe Val Thr Ala Ala Gly Ile Thr Gly Gly Ser Gly Gly Gly Gly Ser 245 250 255		
Ser Gln Val Lys Leu Leu Glu Ser Gly Gly Glu Leu Val Gln Pro Gly 260 265 270		
Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Thr Asn 275 280 285		
Tyr Ser Met Gly Trp Phe Arg Pro Gly Pro Gly Val Asp Arg Glu Ala 290 295 300		
Val Ala Ala Ile Ser Trp Ser Gly Asp Asn Thr Tyr Tyr Val Ser Ser 305 310 315 320		
Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val 325 330 335		
Tyr Leu Gln Met Asn Ser Leu Lys Pro Gln Asp Thr Ala Val Tyr Tyr 340 345 350		
Cys Ala Val Lys Pro Asp Asp Gly Trp Trp Asp Tyr Trp Gly Gln Gly 355 360 365		
Thr Gln Val Thr Val Ser Ser Gln Val Gln Leu Gln Glu Ser Gly Gly 370 375 380		
Gly Leu Val Gln Ala Gly Glu Ser Leu Lys Leu Ser Cys Ala Ala Ser 385 390 395 400		
Gly Asn Thr Phe Ser Gly Gly Phe Met Gly Trp Tyr Arg Gln Ala Pro 405 410 415		
Gly Lys Gln Arg Glu Leu Val Ala Thr Ile Asn Ser Arg Gly Ile Thr 420 425 430		
Asn Tyr Ala Asp Phe Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn 435 440 445		
Ala Lys Lys Thr Val Tyr Leu Glu Met Asn Ser Leu Glu Pro Glu Asp 450 455 460		
Thr Ala Val Tyr Tyr Cys Tyr Thr His Tyr Phe Arg Ser Tyr Trp Gly 465 470 475 480		
Gln Gly Thr Gln Val Thr Val Ser Ser Glu Gln Lys Leu Ile Ser Glu		

485

490

495

Glu Asp Leu Asn
500

<210> 44

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PROTEIN FROM
PLASMID CONSTRUCT

<400> 44

Gly Thr Gln Val Thr Val Ser Ser
1 5

<210> 45

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PROTEIN FROM
PLASMID CONSTRUCT

<400> 45

Gly Thr Gln Val Thr Val Ser Ser Glu Gln Lys Leu Ile Ser Glu Glu
1 5 10 15

Asp Leu Asn

<210> 46

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PROTEIN FROM
VECTOR LINKER

<400> 46

Val Thr Val Ser Ser Gln Val Gln Leu Gln Glu Ser Leu
1 5 10

<210> 47

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PROTEIN FROM

PLASMID INSERT

<400> 47

Ala Ser Gln Val Lys Leu Leu Glu
1 5

<210> 48

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PROTEIN FROM
PLASMID INSERT

<400> 48

Leu Glu Lys Arg Ala Ser
1 5

<210> 49

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PROTEIN FROM
PLASMID INSERT

<400> 49

Leu Glu Lys Arg His His His His His Gly Ser Tyr Val
1 5 10